

## Description

# Electrical Mechanical Icing, Whipped Topping, Cheese and Cookie Dough Dispenser.

### DETAILED DESCRIPTION

[0001] Fig. 1 shows a perspective view of all outer parts of the dispenser. Conventional icing tips 60 housed within a threaded aluminum tip holder 61, which attaches to canister adapter 62 via 4 #4-40 screws to a 20-ounce high-density polyethylene (HDPE) canister 64. The (HDPE) canister 64 is connected to a quick disconnect ring 73 by two quick release cam lock latches 74A, and 74B. Quick release cam lock latches 74A and 74B are attached to PVC housing 77 via 2 #8-32 nuts and bolts per latch. PVC housing 77 and 76 are retained in place by two milled metal plates 65 and 70 via 71A, 71B 89A and 89B #8-32 nuts and bolts. Female power input plug 66 is placed in housing cover 76. Strap holder 67A and 67B are connected to upper and bottom milled plates 65 and 70 via

strap holder nut and bolts #8-32. Velcro strap 68 is attached to strap holder 67A and 67B. Forward and reverse toggle switch 69 is located in PVC housing 76.

- [0002] Fig. 2 shows a right side section view of some inner and outer parts of the dispenser.
- [0003] Conventional icing tips 60 housed within a threaded aluminum tip holder 61, which attaches to canister adapter 62 via 4 #4-40 screws 63A, 63B, 64C and 64D to a 20-ounce high-density polyethylene (HDPE) canister. Plunger 78 runs within the 20-ounce high-density polyethylene (HDPE) canister, which is attached to gear rack 72 via retainer ring.
- [0004] Fig. 2A shows a right side section view of motor 82, gear-box 83, clutch holder 80, clutch 79, solenoid 87 solenoid clamp 88, spacer bracket 84, 81, spacer 86 via spacer bolts 85A, 85B.
- [0005] Fig. 3 shows a front section view inner and outer parts of the dispenser. Conventional icing tips 60 housed within a threaded aluminum tip holder 61, which attaches to canister adapter 62 via 4 #4-40 screws 63A, 63B, 64C and 64D to a 20-ounce high-density polyethylene (HDPE) canister. Plunger 78 runs within the 20-ounce high-density polyethylene (HDPE) canister, which is attached to gear

rack 72 via retainer ring. Spacer bracket 81 is held in place via 89A, 89B that attaches to spacer 86 which is attached with spacer bracket 84 via spacer bolts 85A, 85B. This dispenser achieves its results as follows: The user presses the toggle switch 69, which activates the motor 82 and solenoid 87. This engages gear box 83, which turns in a clockwise direction, which turns gear rack 72 also in a clockwise direction. Gear rack 72 is thus driven downward through a clutch assembly 79, 80. The (HDPE) plunger 78, which is attached to the end of the gear rack 72, which is pushed into the canister 64, which pushes the food product out the tip 60. If the user presses the toggle switch 69 in the opposite direction, the previous is reversed pulling the plunger 78 back to the top of the (HDPE) canister.